

Roots fibrous; stem decumbent, rooting at nodes; flowers 1-3 pedicelled; stamens 2, fertile; staminodes 2; capsule cuspidate; seeds.

*Katchal Island*: Delhi village, W. Bay, 13 June 77, *Chakraborty* 6028 (PBL).

*Distribution*: Sri Lanka, Peninsular India, Bengal, Burma. A new record for Andaman and Nicobar Islands.

BOTANICAL SURVEY OF INDIA,  
PORT BLAIR, ANDAMANS,  
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PARITOSH CHAKRABORTY

34. FILAMENTOUS MYXOPHYCEAE OF AURANGABAD DISTRICT, MAHARASHTRA

Between September 1975 and June 1977, about fifteen hundred vials of algae have been collected from a number of places in Aurangabad district in Marathwada division of Maharashtra state. The rainfall of Aurangabad district varies from 50 to 150 cm. The temperature varies from 9°C in December to 41°C in May. The pH of the water of the collection spots was determined by using B.D.H. universal indicator. The pH is mentioned in brackets immediately after the collection spots in the habitats. Camera lucida diagrams of all the algae have been drawn and preserved.

In this paper forty five taxa belonging to eleven genera of the filamentous algae have been recorded. Of these only five taxa have been earlier recorded from Aurangabad proper by Kamat (1974),<sup>1</sup> however, the localities mentioned by Kamat are different from the ones recorded here. The remaining forty algae are additions to the flora of Aurangabad district.

*Spirulina laxissima* West, G.S.

In blue green mucilaginous masses in a tap water culture (8.5), Institute of Science Laboratory, Aurangabad (28-10-75).

*Spirulina major* Kuetz. ex Gomont

Blue greenish masses submerged in a stream (9.5), Aurangabad (6-11-75).

*Oscillatoria annae* van Goor

Greenish brown masses forming thin layers on moist soils near Harsool talao, Aurangabad (11-10-75).

*Oscillatoria biswasii* Kamat

Bluish green mucilaginous masses along with a thin layer of soil floating and submerged in a small pool, Aurangabad (11-10-75).

*Oscillatoria chalybea* (Mertens) Gomont

Abundant in a pool (8.5), Khokadpura, Aurangabad (1-10-75). In oxidation pond (9), near Kanchanwadi (19-10-75).

Trichomes are slightly narrower than those of the type.

*Oscillatoria cortiana* Meneghini ex Gomont v. minor Kamat

Bluish green masses adhering to the Cyperaceae members in oxidation pond (10.5) near Kanchanwadi (10-10-75).

<sup>1</sup> KAMAT, N. D. (1974): Algae of Marathwada, Maharashtra. *Phykos* 13: 22-32.

**Oscillatoria mougeotii** Kuetzing

Greenish brown mass adhering to aquatic plants submerged in a temporary pool (9), Aurangabad (6-11-75). Greenish mass forming a layer on submerged rock, Kham river (9), Aurangabad (1-10-75).

Trichomes are slightly narrower than those of the type.

**Oscillatoria okeni** Agardh ex Gomont

Abundant bluish green masses adhering to submerged rocks in Kham river (8.7), Aurangabad (1-10-75).

Trichomes of this alga are slightly narrower than those of the type.

**Oscillatoria princeps** Vaucher ex Gomont

Planktonic in a river (8.5) at Farola fata (2-1-77). Bluish green mass in a stream (8.5), Aurangabad (6-11-75). Blue green mass forming a layer on sand in a stream (8.5), University campus, Aurangabad (7-11-75).

**Oscillatoria profunda** Kirchner

Blackish green mass adhering to the submerged grasses in a stream (8.5), Aurangabad (6-11-75).

**Oscillatoria pseudogeminata** G. Schmid

Blackish green mass adhering to submerged stones in a big gutter (8.5), Aurangabad (6-11-75).

**Oscillatoria pseudogeminata** G. Schmid f. **longa** Kamat

Brownish masses adhering to submerged rocks in Kham river (8.5), Aurangabad (1-10-75).

**Oscillatoria rosea** Utermohl

Greenish brown mass forming a thin layer on moist soil near Harsool talao, Aurangabad (11-10-75).

The cells are sometimes much longer.

**Oscillatoria subbrevis** Schmidle

Adhering to submerged grasses in a big gutter (8.5); forming a thin layer on the submerged inner wall of a cistern (8.7), Pawanchakki, Aurangabad (1-10-75).

**Oscillatoria tambi** Woronich

Greenish brown mass adhering to submerged stones in a big gutter (8.5), Aurangabad (6-11-75).

**Phormidium anomala** Rao, C.B.

Bluish green mass forming a thin layer adhering to the submerged glass of the tap water culture (8.5), Institute of Science Laboratory, Aurangabad (8-11-75).

Trichomes slightly narrower than those of the type.

**Phormidium bigranulatum** Gardner

Greenish blue mass forming a mucilaginous layer on the submerged stone wall of a kund (8.5), Aurangabad caves, Aurangabad (2-10-75).

**Phormidium ceylanicum** Wille v. **minor** Kamat

Greenish mucilaginous mass adhering to the roots of aquatic plants, Kham river (8.5), Aurangabad (3-10-75).

**Phormidium favosum** (Bory) Gomont

Greenish mass adhering to submerged stone slope near a big cistern (8.5), Aurangabad (1-10-75).

**Phormidium henningsii** Lemm.

Blackish green mass forming a mucilaginous layer on moist soil, Aurangabad (18-9-75).

**Phormidium jenkelianum** Schmid, G.

Brownish green mass adhering to submerged rock in Kham river (8.7), Aurangabad (1-10-75).

**Phormidium subincrustedum** Fritsch et Rich

Greenish brown mucilaginous mass forming a layer on submerged sand in a big gutter (8.5), Aurangabad (1-11-75).

**Phormidium tenue** (Menegh.) Gomont

Dark green mucilaginous mass floating in a glass beaker (8.5), Institute of Science laboratory, Aurangabad (8-11-75).

**Phormidium uncinatum** (Ag.) Gomont

Blue green mass adhering to submerged rocks in Kham river (9), Aurangabad (20-10-75).

MISCELLANEOUS NOTES

Cross walls of the alga are never granulated.

**Lyngbya dixitii** Kamat

Greenish brown mass adhering to submerged stones in a big gutter (8.7), Aurangabad (6-11-75).

**Lyngbya epiphytica** Hieron.

Benthic in the swimming pool (8.5), Aurangabad (25-5-76).

Filaments in the Aurangabad form are not epiphytic as in the type and the sheath is slightly broader than in the type. However it agrees in all other respects with the type.

**Lyngbya gandhii** Kamat

On moist soil and on the submerged soil in a stream (8.5), Pallod (16-1-77).

Cells of this alga are narrower and shorter than those of the type.

**Lyngbya gardneri** (Setchell et Gardner) Geitler

Blue green masses forming a layer on cement wall of a settling tank (9), Aurangabad (25-9-75).

**Lyngbya maharashtrensis** Kamat

Blue green mucilaginous masses floating in a tap water culture (8.5), Institute of Science laboratory, Aurangabad (12-3-76).

**Lyngbya pusilla** (Rabh.) Hansg.

Epiphytic on the filamentous algae attached to small bricks and small stones submerged in a big gutter (8.5), Aurangabad (1-11-75).

**Lyngbya stagina** Kuetzing f. **non-granulata** Kamat

Bluish green mass adhering to the submerged stones in Kham river (8.5), Aurangabad (3-10-75).

**Microcoleus cataractarum** Hansg.

Bluish green algae floating and submerged in Beneck's medium culture in laboratory, Institute of Science, Aurangabad (12-3-76).

**Microcoleus chthonoplastes** Thuret ex Gomont

Bluish green planktonic mass in a big fish nursery tank (8.7), Kelana project (16-1-76).

**Microcoleus hospitus** Hansg.

Brownish green mucilaginous mass forming a thick layer on sand near water tank on the terrace, Govt. College of Arts & Science, Aurangabad (19-5-76).

**Microcoleus tenerrimus** Gomont

Blackish green mass forming a layer on the stone wall of Aurangabad caves (12-10-75).

**Microcoleus vaginatus** (Vaucher) Gomont

Greenish brown mass forming a thick layer on sand near a water tank on the terrace, Govt. College of Arts and Science, Aurangabad (19-5-76).

**Nostoc commune** Vauch. ex Born. et Flah.

Bluish green, mucilaginous mass along with other algae in a tap water culture (8.5), Institute of Science laboratory, Aurangabad (8-11-75).

**Nostoc piscinale** Kuetz. ex Born. et Flah.

Along with other algae in a tap water culture (8.5), Institute of Science laboratory, Aurangabad (28-10-75).

Akinetes rarely broader than those of the type.

**Nostoc spongiaeforme** Agardh ex Born. et Flah. v. **tenue** Rao, C. B.

Bluish green mass forming a layer on moist soils and bricks of oxidation pond, Kanchanwadi (10-10-75).

**Cylindrospermum sphaerica** Prasad f. **cylindricum** Kamat

Bluish green mass adhering to the submerged roots of *Phoenix* sp. on the bank of a stream (8.5), Farola (2-1-77).

**Cylindrospermum vouki** Pevalek

Blue green mass forming a layer on sand on the bank of the river (9) near Shekta (21-2-76).

Akinetes are slightly broader and shorter than those of the type.

**Anabaena volzii** Lemm.

Planktonic and submerged in oxidation pond (9.5), Kanchanwadi (10-10-75).

**Scytonema myochrous** (Dillw.) Ag. ex Born. et Flah.

Brownish black masses forming a thick layer on the rocks in hill crevices near caves, Aurangabad (2-10-75).

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**Petalonema densum** (A. Br.) Migula

Brownish green mass forming a thick layer on the stone walls of the caves, Aurangabad (2-10-75).

**Dichothrix gypsophila** (Kuetz.) Born. et Flah.

Brownish green mass forming a thick layer on the cement wall of a cistern (8.5), Subhedari Guest House, Aurangabad (11-9-76).

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N. D. KAMAT

**CORRIGENDA**

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Miscellaneous Note 28

Danaid butterflies attracted to *Heliotropium indicum* (Boraginaceae), an alkaloid containing plant

On page 512, right side column, last word

For hormone

read pheromone

**Volume 75(3) : December 1978**

The changing Wildlife of Kathiawar.

On page 634, right side column, line 10

For District Magistrate

read Political Agent

On page 636, right side column, 2nd para, line 5

For Mullet

read Mulley (or freshwater shark *Wallago attu*)

On page 644, right side column, line 30

For 1975

read June, 1976

On page 644, right side column, line 31

For 1976

read 5th May, 1977.